

Appl. No. 09/941,096
Amdt. Dated October 9, 2003
Reply to Office Action of June 9, 2003

Pending Claims:

This listing will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A composite sheet comprising:

a substantially non-porous and moisture-pervious thermoplastic synthetic resin film having an upper and a lower surface;

a thermoplastic synthetic resin fibrous sheet bonded to at least one of the upper and lower surfaces of said thermoplastic synthetic resin film;

a plurality of bulgy structural zones formed on a surface of the thermoplastic synthetic resin film that is opposed to said thermoplastic synthetic resin fibrous sheet, the plurality of bulgy structural zones extending continuously in one direction in parallel and substantially uniformly spaced apart from one another; and

substantially flat zones defined between adjacent ones of the bulgy structural zones,

said thermoplastic synthetic resin film being welded along said bulgy structural zones to said thermoplastic synthetic resin fibrous sheet.

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Claim 2 (previously amended): The composite sheet according to Claim 1, wherein said thermoplastic synthetic resin film comprises a thermoplastic elastomer resin.

Claim 3 (previously amended): The composite sheet according to Claim 2, wherein said thermoplastic elastomer resin is a member selected from the group consisting of urethane-based, ester-based and amide-based thermoplastic elastomer resins and said thermoplastic synthetic resin film is substantially non-porous and moisture-pervious.

Claim 4 (previously amended): The composite sheet according to Claim 1, wherein said thermoplastic synthetic resin fibrous sheet comprises a fibrous nonwoven fabric made of thermoplastic synthetic resin fibers.

Claim 5 (previously amended): The composite sheet according to Claim 4, wherein said fibrous nonwoven fabric comprises an elastically stretchable nonwoven fabric obtained by melt-spinning thermoplastic elastomer resin and said thermoplastic synthetic resin film is bonded along the bulgy structural zones to said elastically stretchable nonwoven fabric in an untensioned state.

Claim 6 (previously amended): The composite sheet according to Claim 11, wherein each of said bulgy structural zones has a width of from about 0.2 to about 2.0 mm and a maximum thickness of

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from about 40 to about 150 μm and each of said flat zones has a thickness of from about 5 to about 100 μm .

Claim 7 (previously amended): The composite sheet according to Claim 1, wherein said composite sheet has a water-resistance of 49 hpa or higher as measured in accordance with JIS 1092A.

Claim 8 (previously amended): The composite sheet according to Claim 1, wherein said composite sheet has a moisture-permeability of 3000 $\text{g/m}^2\cdot 24 \text{ Hr}$ or higher as measured in accordance with JIS L 1099A.

Claim 9 (currently amended): A composite sheet comprising:

a thermoplastic synthetic resin fibrous sheet;

a thermoplastic synthetic resin film bonded to the thermoplastic synthetic resin fibrous sheets to form a composite sheet having a substantially flat exposed surface defined by the thermoplastic synthetic resin film;

a plurality of bulgy structural zones formed on a surface of the thermoplastic synthetic resin film that is opposed to said thermoplastic synthetic resin fibrous sheet, the plurality of bulgy structural zones extending continuously in one direction in parallel and spaced substantially uniformly apart from one another; and

substantially flat zones defined between adjacent ones of the bulgy structural zones,

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said thermoplastic synthetic resin film being welded along said bulgy structural zones to said thermoplastic synthetic resin fibrous sheet.

Claim 10 (currently amended): A composite sheet comprising:

an imperforated thermoplastic synthetic resin film having an upper and a lower surface;
a thermoplastic synthetic resin fibrous sheet bonded to at least one of the upper and lower surfaces of said thermoplastic synthetic resin film;

a plurality of bulgy structural zones formed on a surface of the thermoplastic synthetic resin film that is opposed to said thermoplastic synthetic resin fibrous sheet, the plurality of bulgy structural zones extending continuously in one direction in parallel and spaced substantially uniformly apart from one another; and

substantially flat zones defined between adjacent ones of the bulgy structural zones,
said thermoplastic synthetic resin film being welded along said bulgy structural zones to said thermoplastic synthetic resin fibrous sheet.